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(33) **Sharma et al.** (43) **Pub. Date: Feb. 14, 2019**(54) **COMPUTATION OF HEMODYNAMIC
QUANTITIES FROM ANGIOGRAPHIC DATA**(60) Provisional application No. 61/812,346, filed on Apr.
16, 2013, provisional application No. 61/669,325,
filed on Jul. 9, 2012.(71) Applicant: **Siemens Healthcare GmbH**, Erlangen
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(2013.01)(21) Appl. No.: **16/161,558**(22) Filed: **Oct. 16, 2018****Related U.S. Application Data**(63) Continuation of application No. 14/947,954, filed on
Nov. 20, 2015, which is a continuation of application
No. 13/937,313, filed on Jul. 9, 2013, now Pat. No.
9,247,918.(57) **ABSTRACT**Methods for computing hemodynamic quantities include:
(a) acquiring angiography data from a patient; (b) calculat-
ing a flow and/or calculating a change in pressure in a blood
vessel of the patient based on the angiography data; and (c)
computing the hemodynamic quantity based on the flow
and/or the change in pressure. Systems for computing hemo-
dynamic quantities and computer readable storage media are
described.100